FIG.1

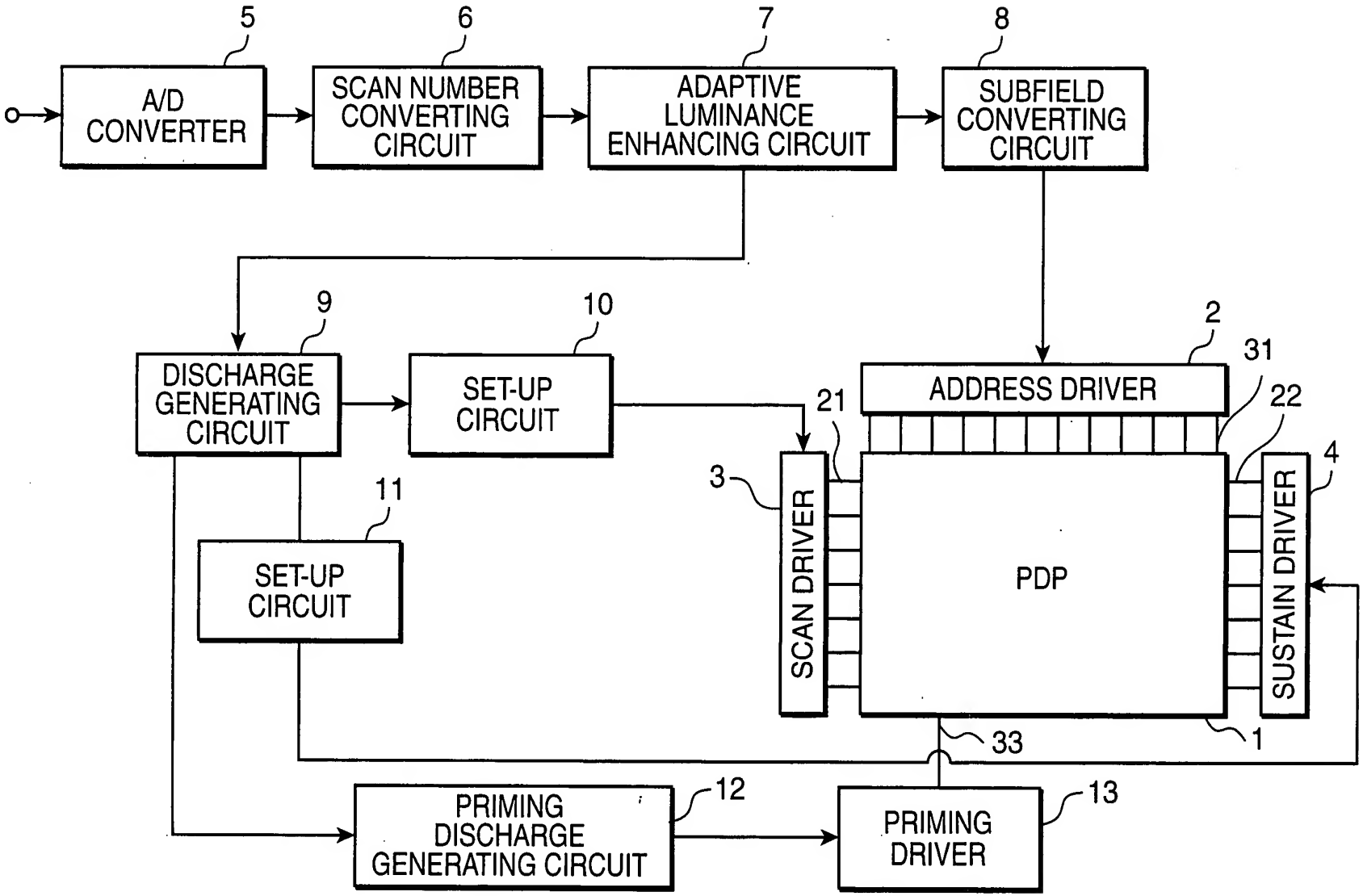

5
6
7
8
A/D CONVERTER
SCAN NUMBER CONVERTING CIRCUIT
ADAPTIVE LUMINANCE ENHANCING CIRCUIT
SUBFIELD CONVERTING CIRCUIT
9
10
2
31
DISCHARGE GENERATING CIRCUIT
SET-UP CIRCUIT
ADDRESS DRIVER
21
22
3
4
11
SCAN DRIVER
PDP
SUSTAIN DRIVER
SET-UP CIRCUIT
33
1
12
13
PRIMING DISCHARGE GENERATING CIRCUIT
PRIMING DRIVER

FIG.2

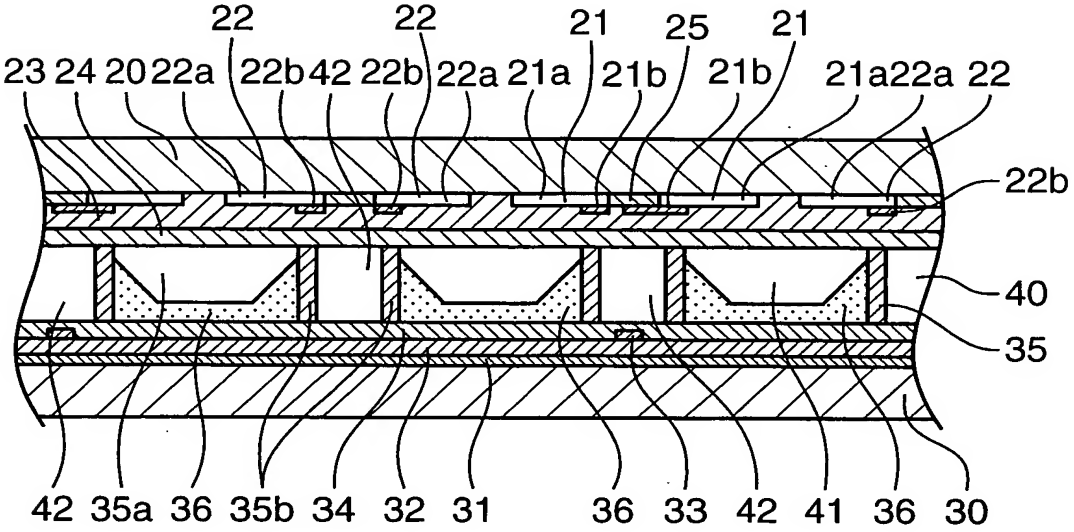

22
22
21
25
21
23 24 20 22a 22b 42 22b 22a 21a 21b 21b 21a 22a 22
22b
40
35
42 35a 36 35b 34 32 31 36 33 42 41 36 30

FIG.3

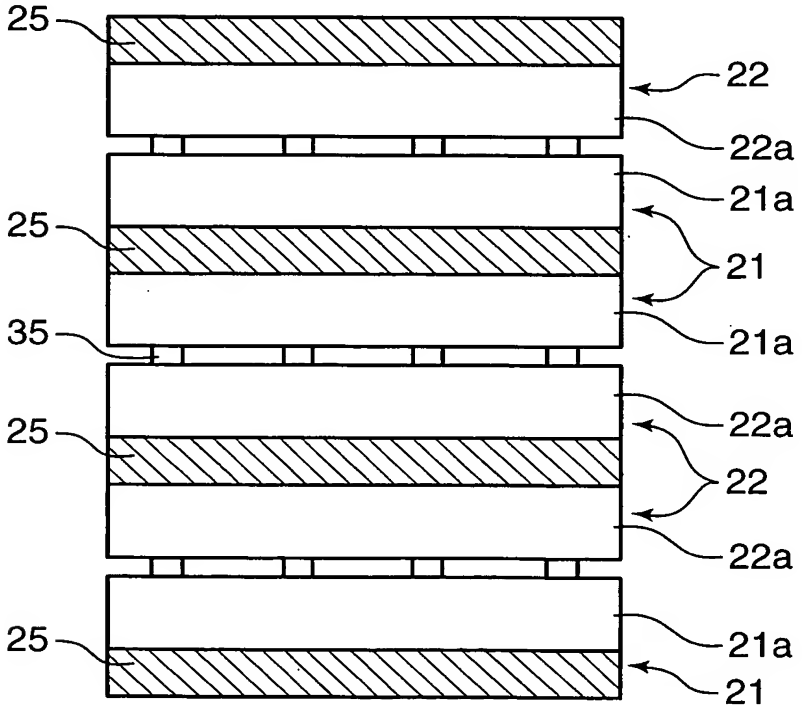

25
22
22a
21a
25
21
21a
35
22a
25
22
22a
21a
25
21

FIG.4

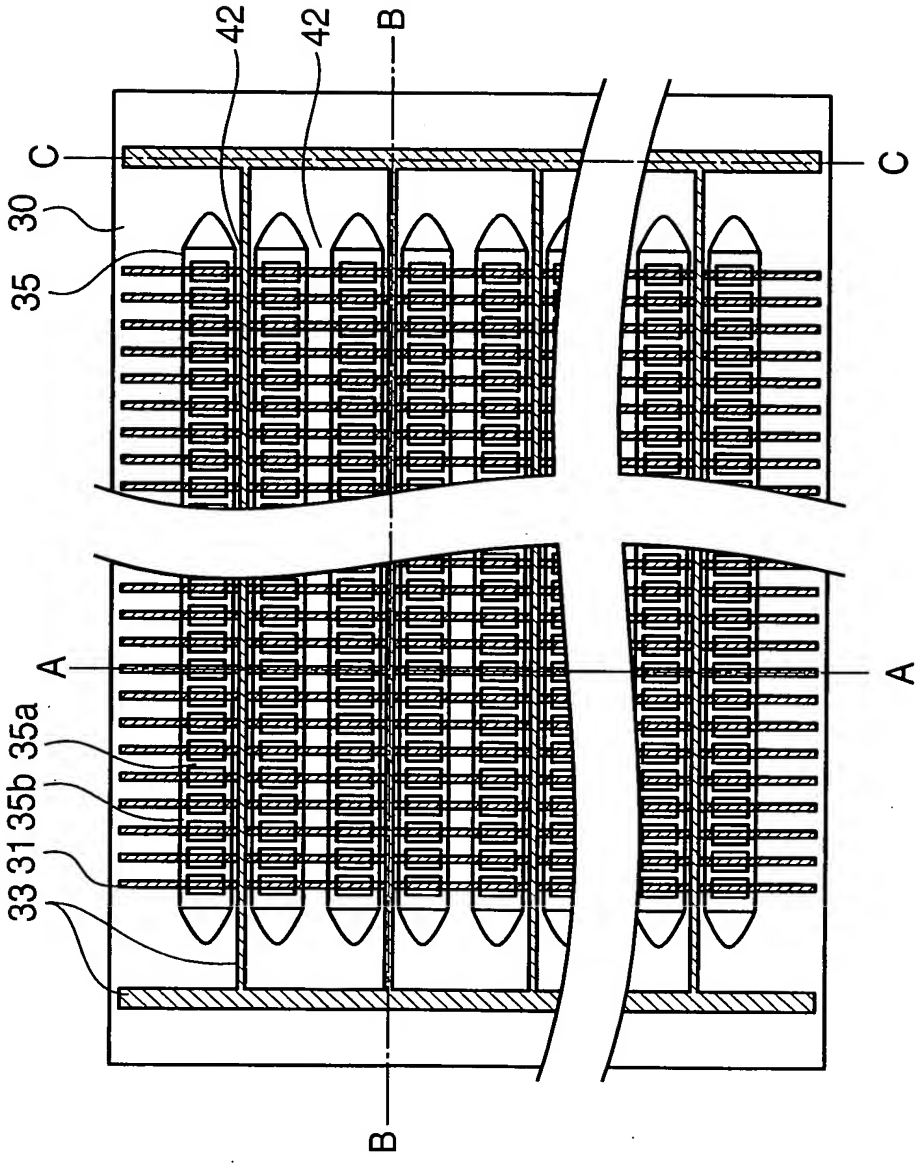


FIG.5

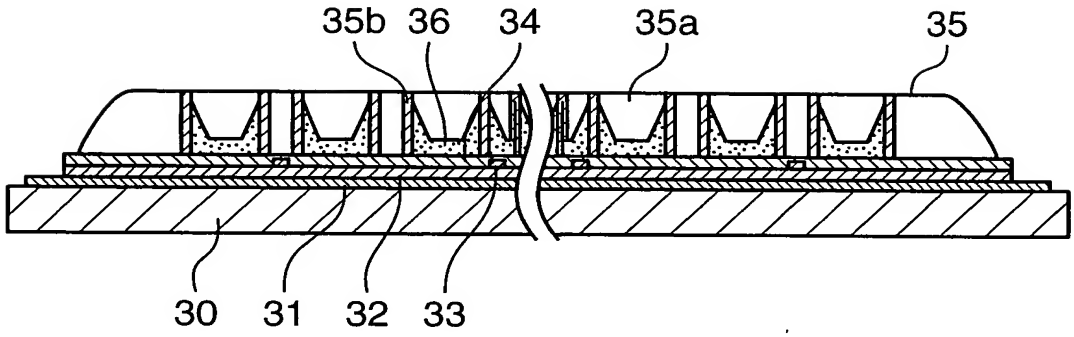


FIG.6

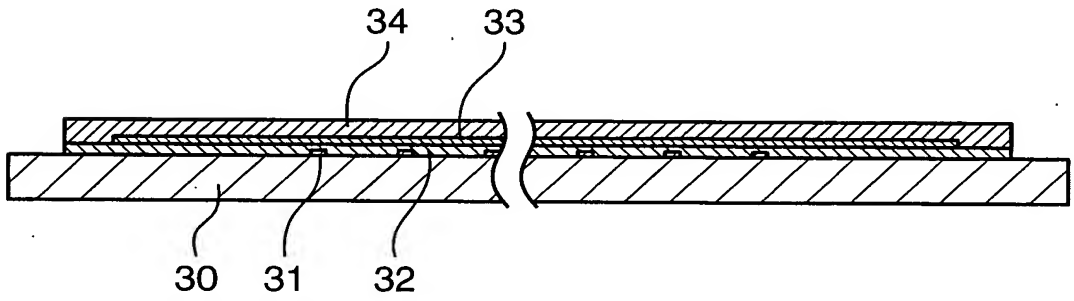


FIG.7

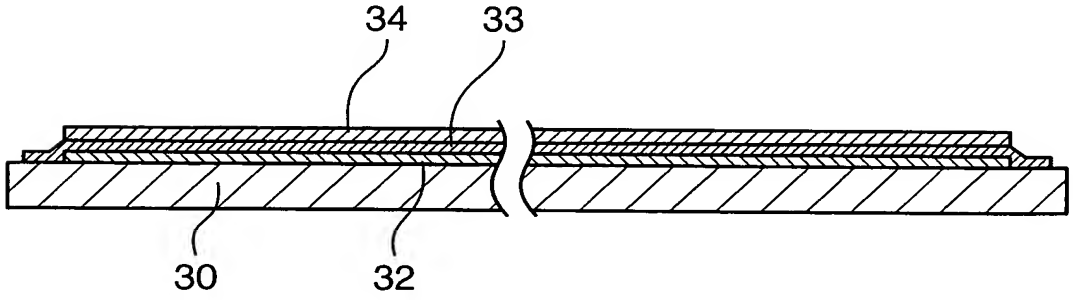


FIG.8

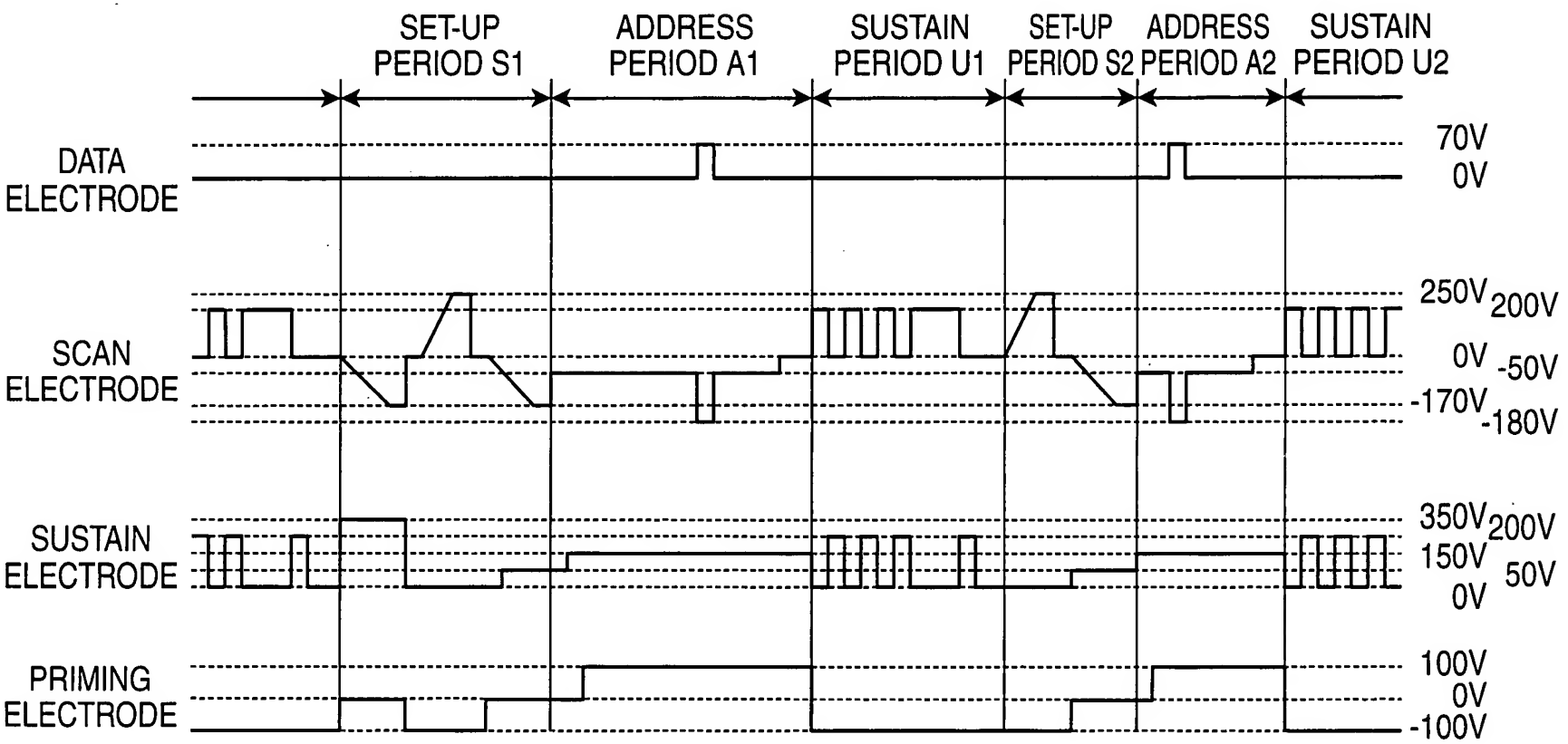

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.9

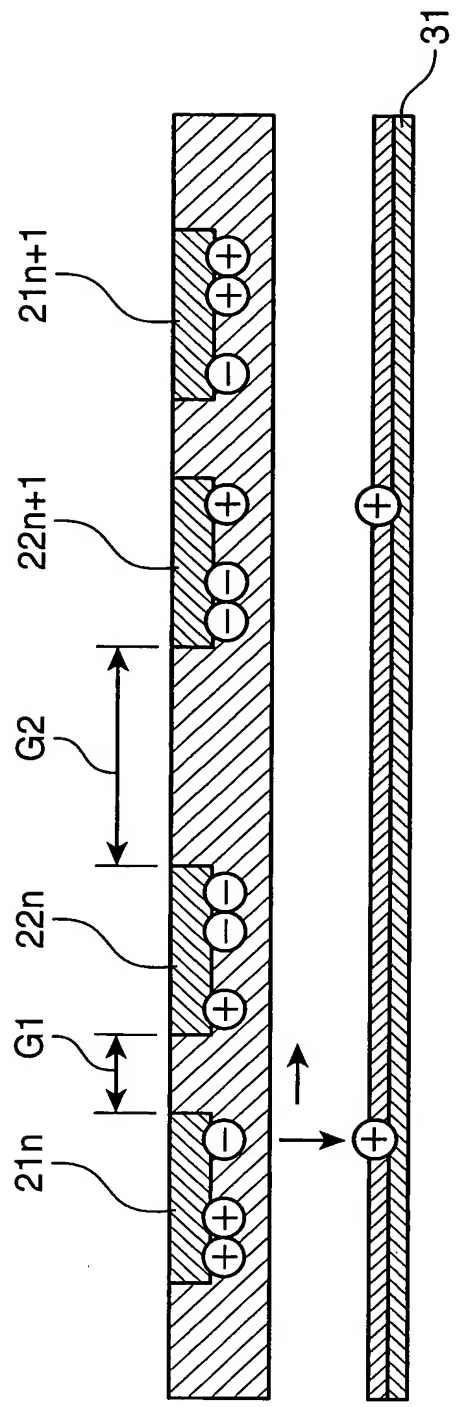


FIG.10

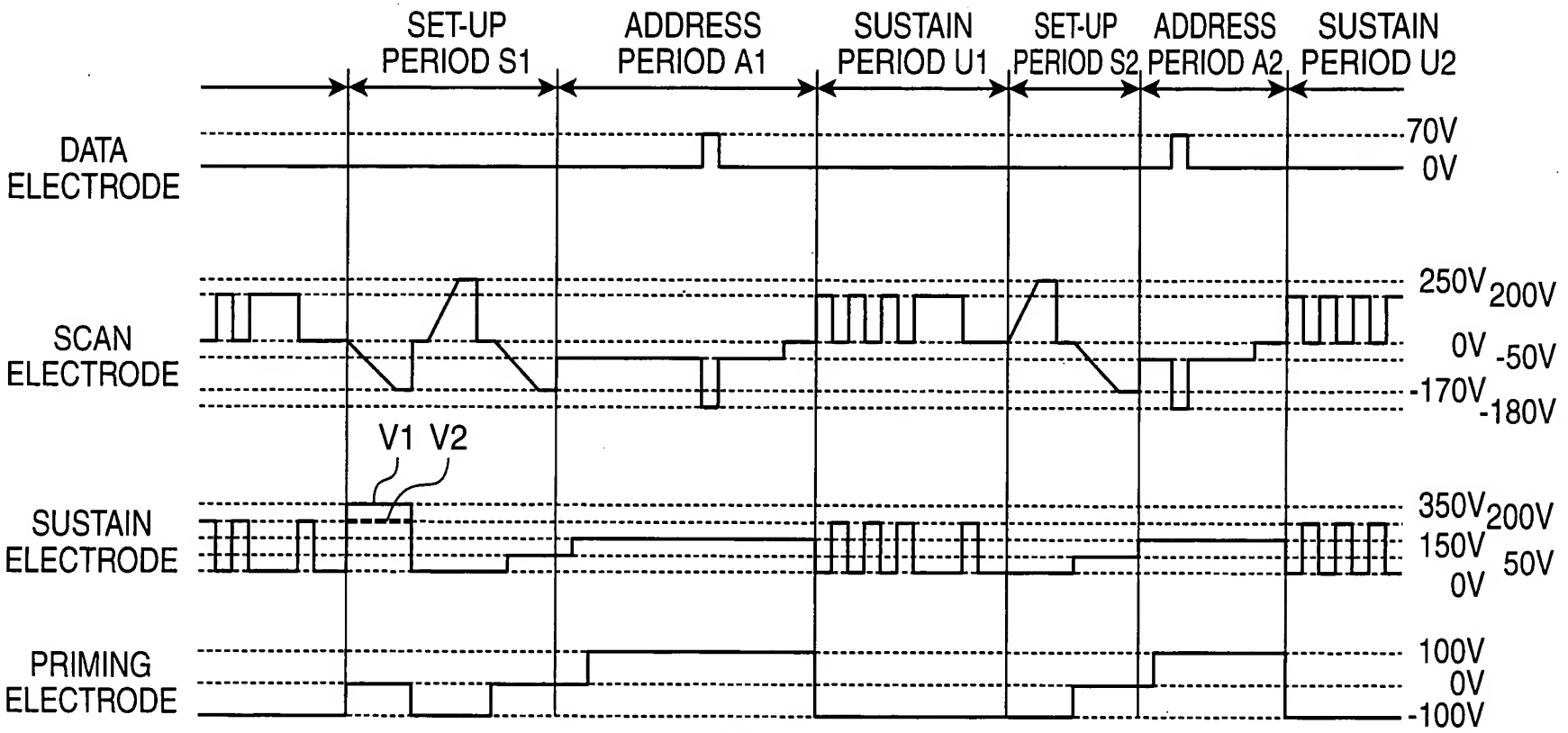

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1
V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.11

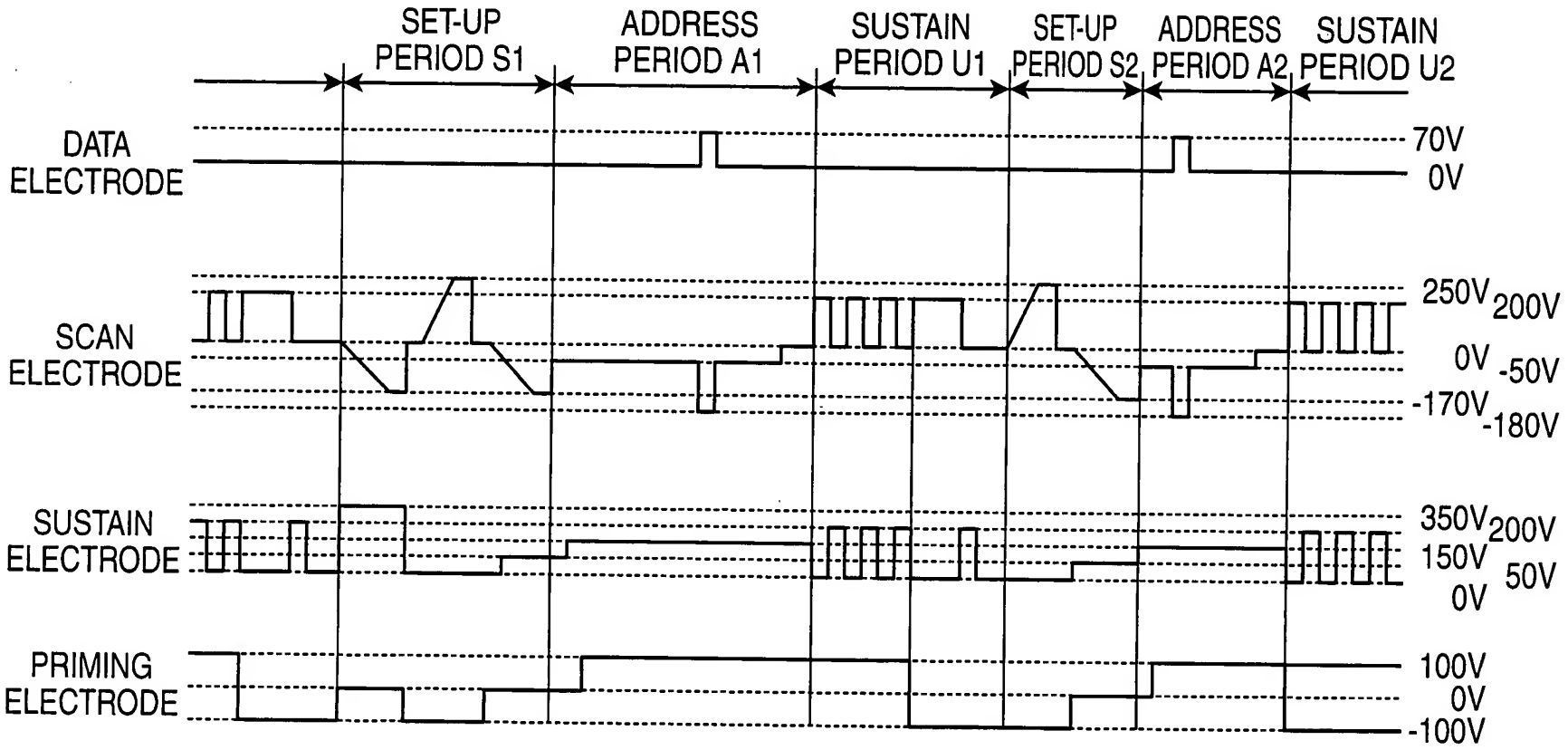

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.12

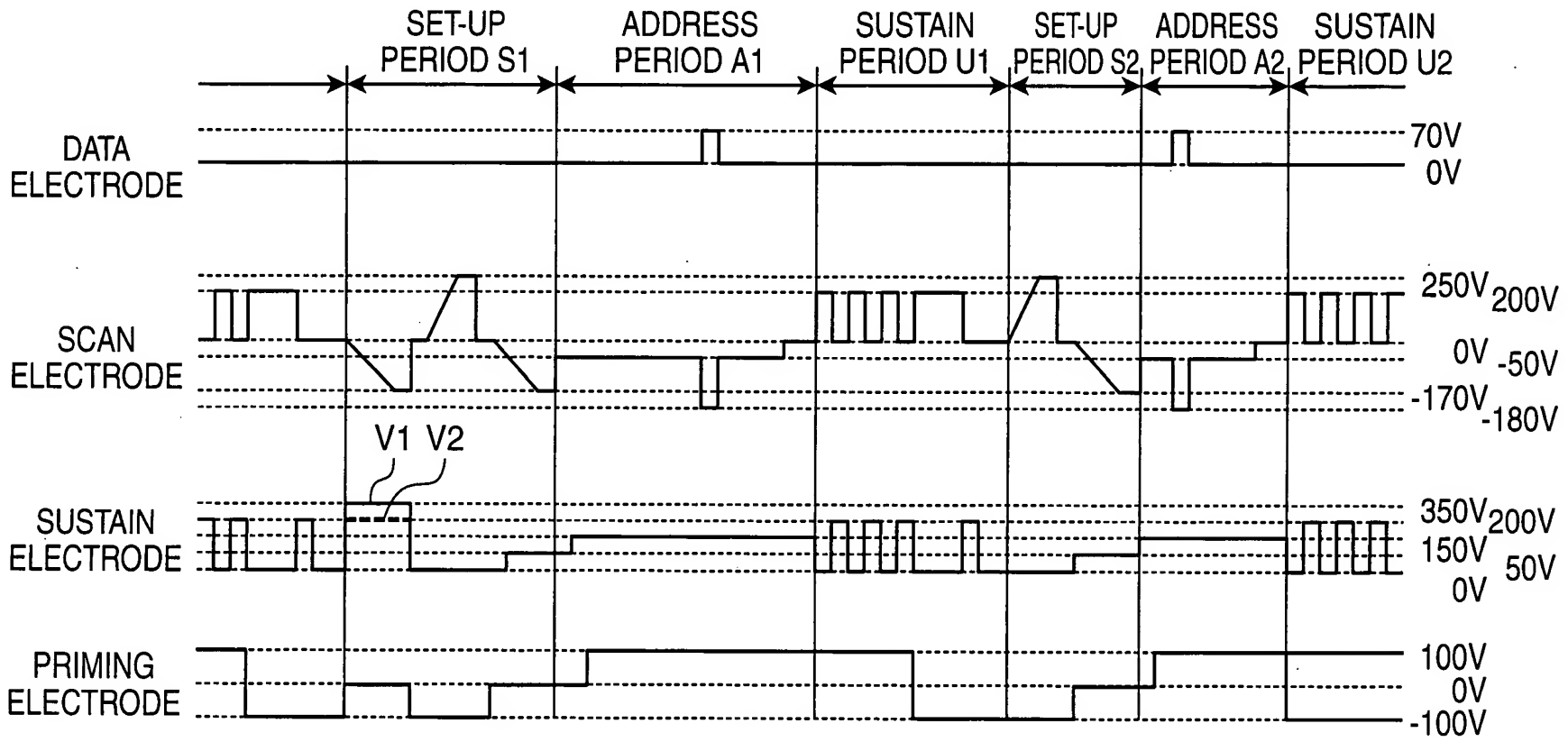

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1
V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.13

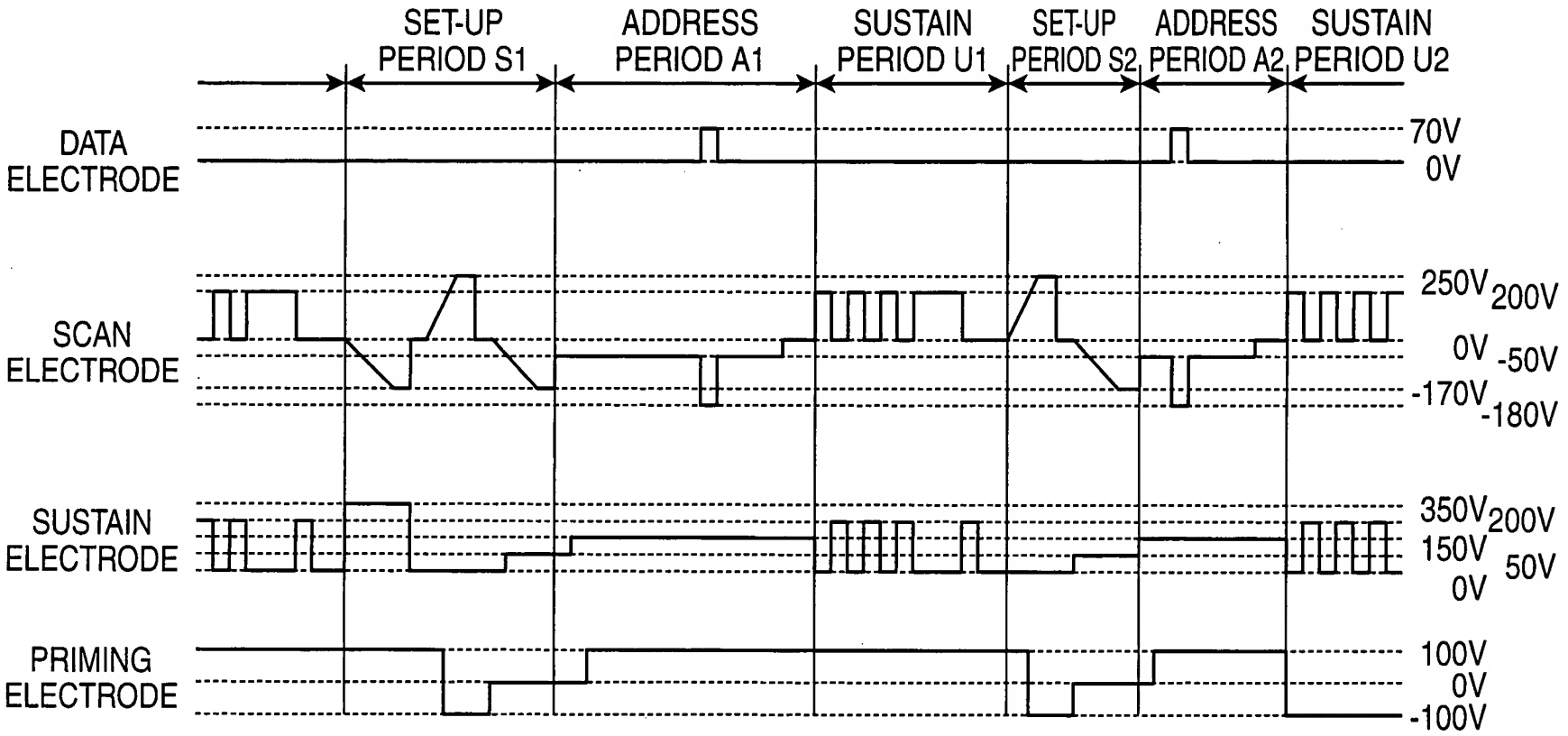

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.14

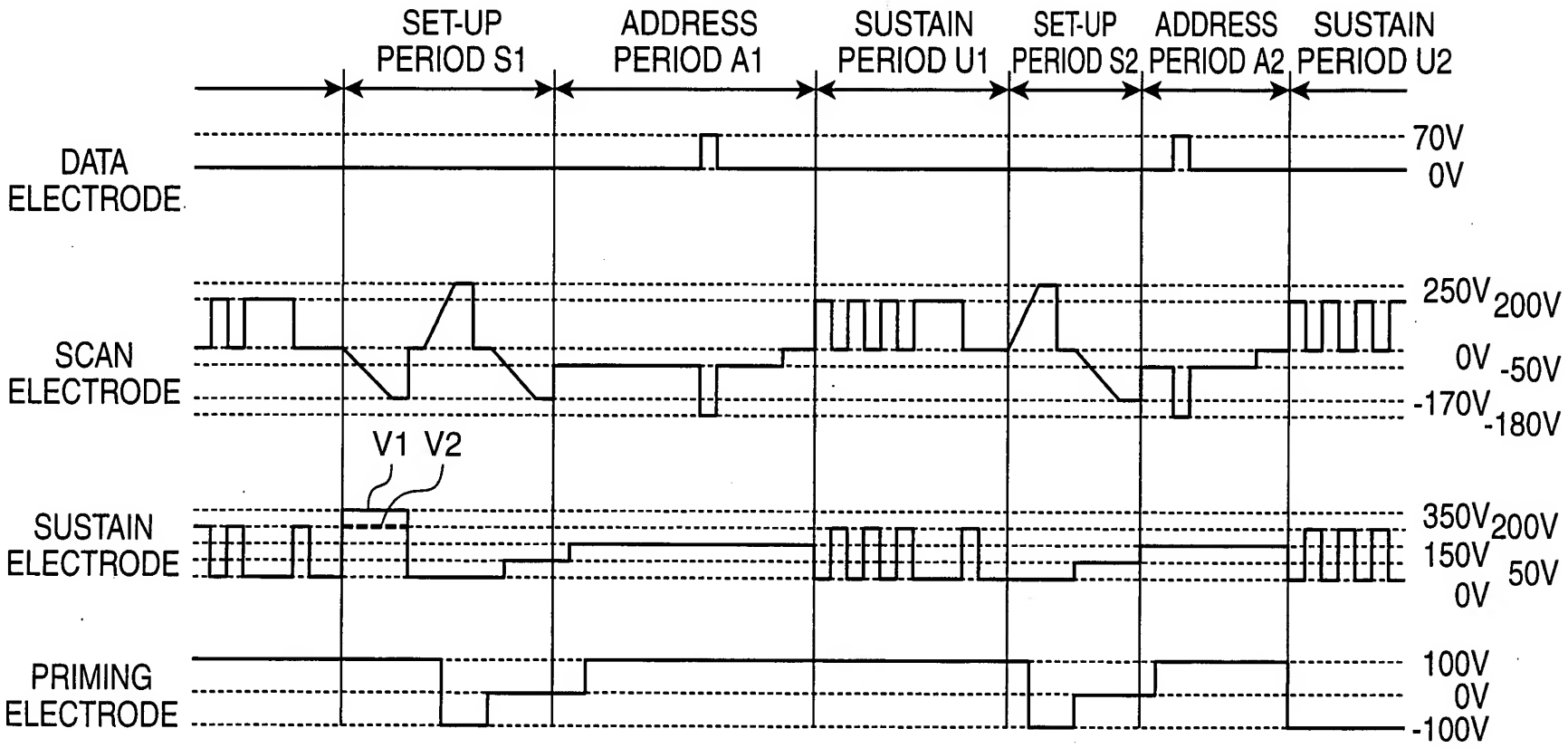

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1
V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V
-100V

FIG.15

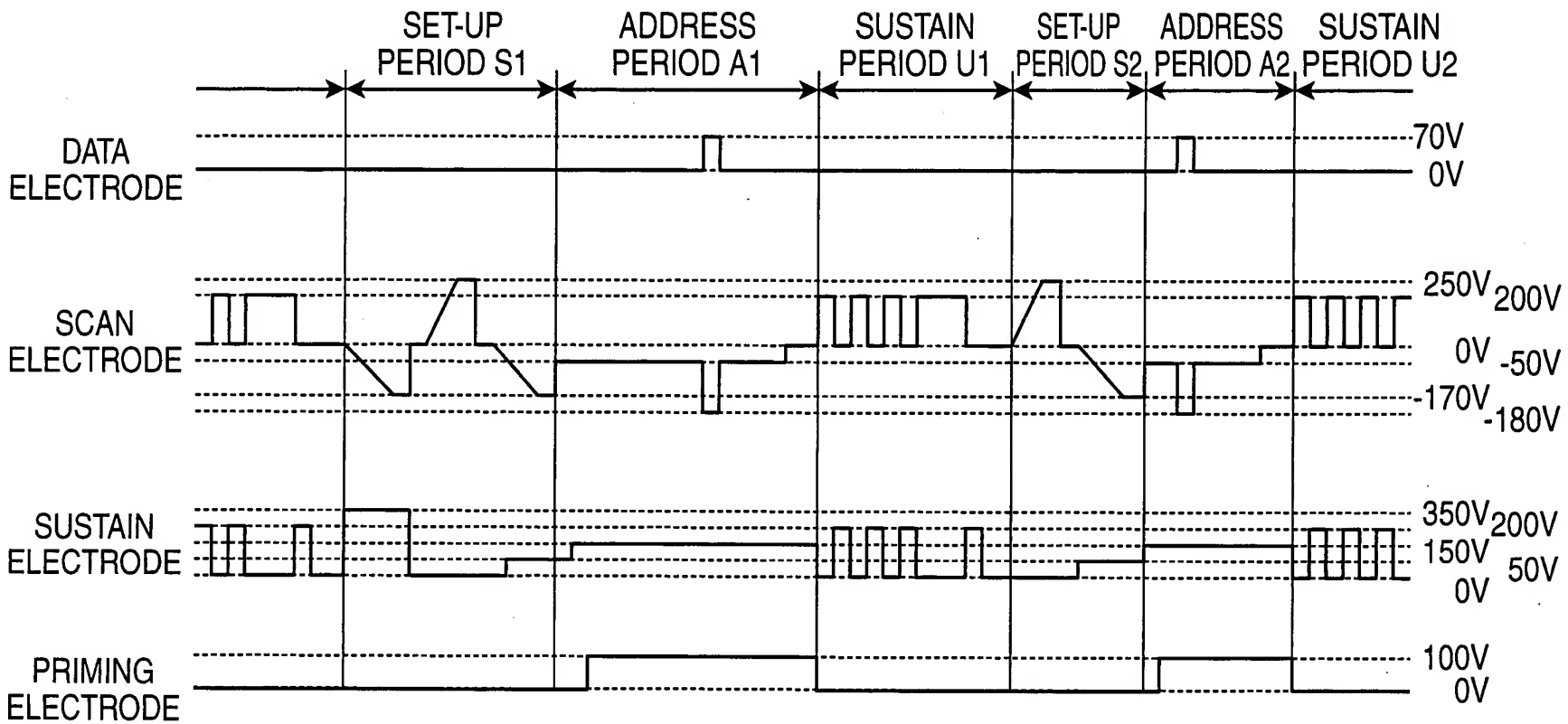

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V

FIG.16

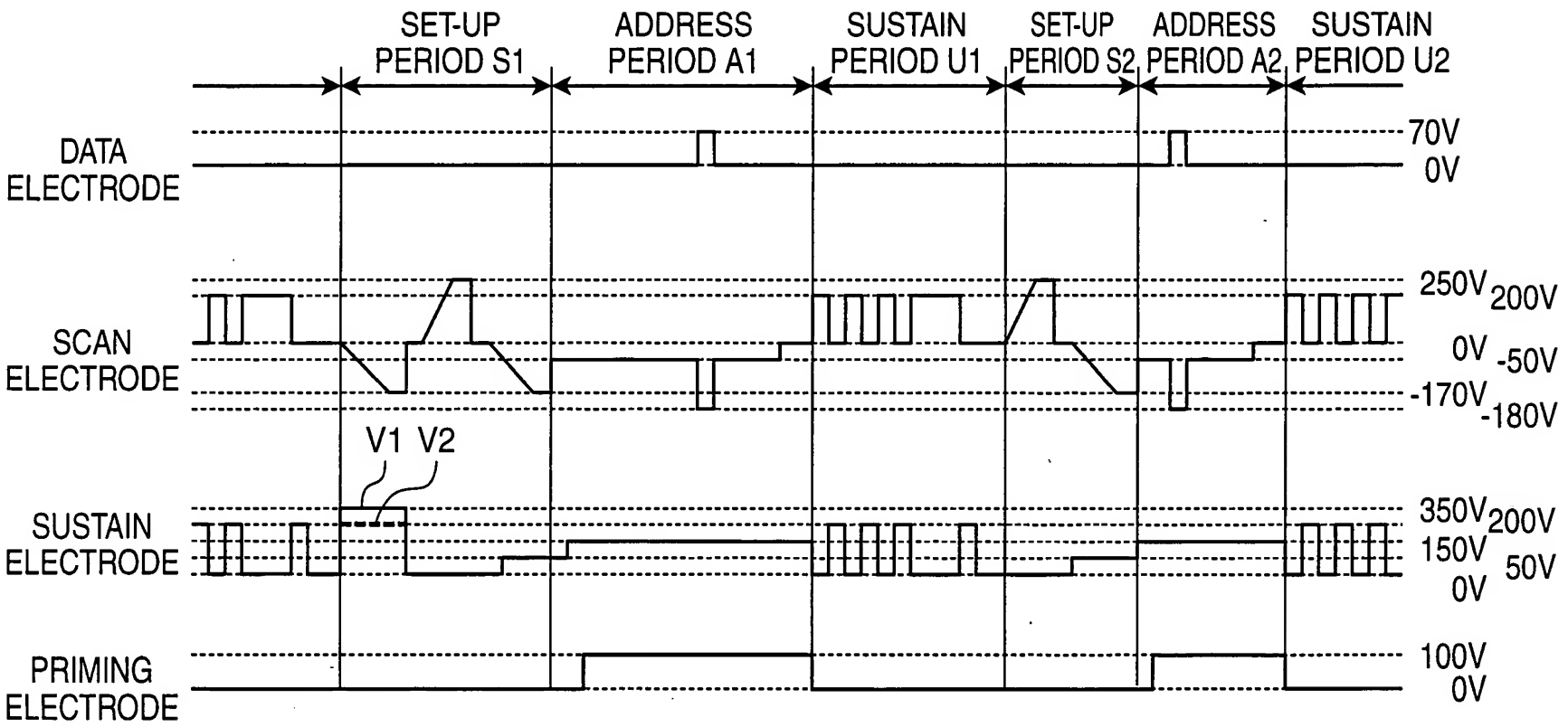

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1
V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V

FIG.17

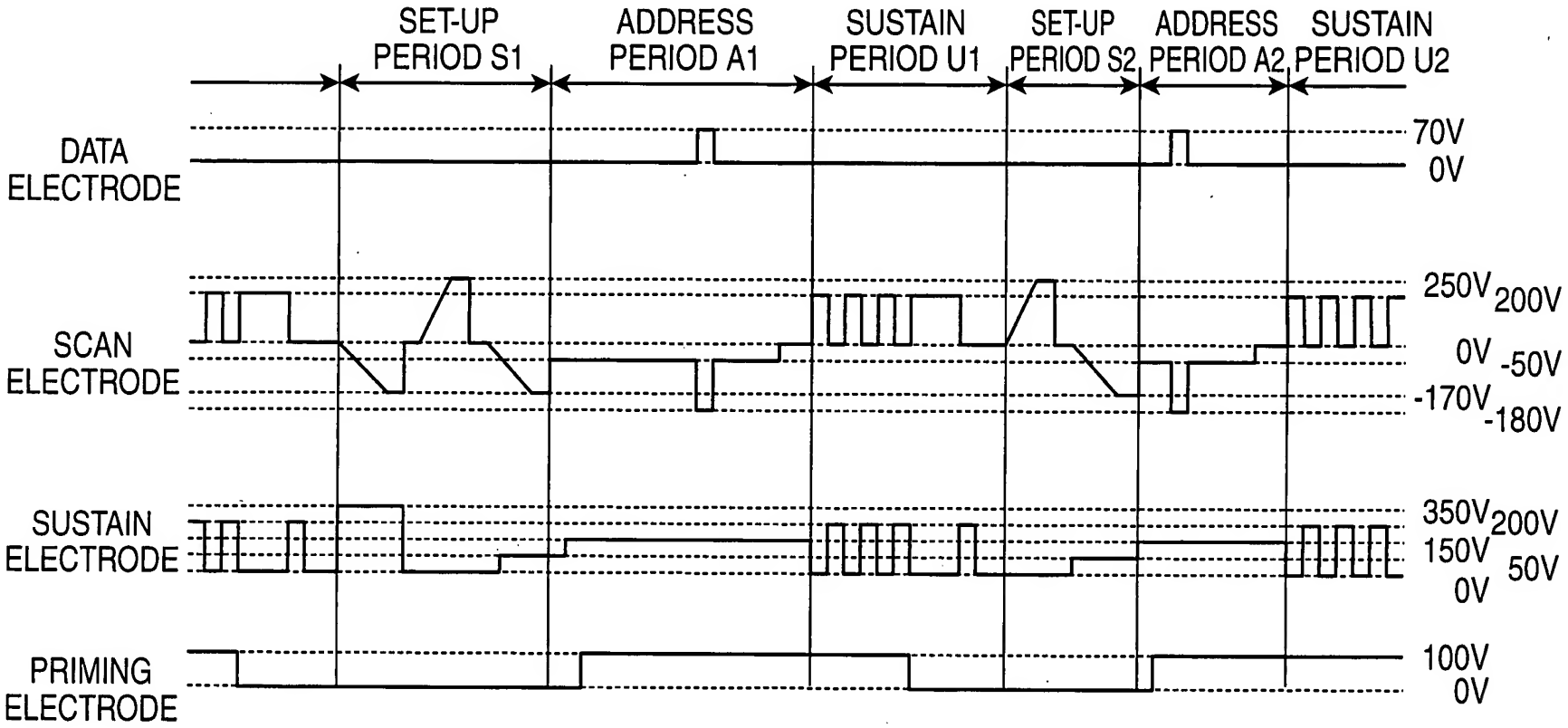

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V

FIG.18

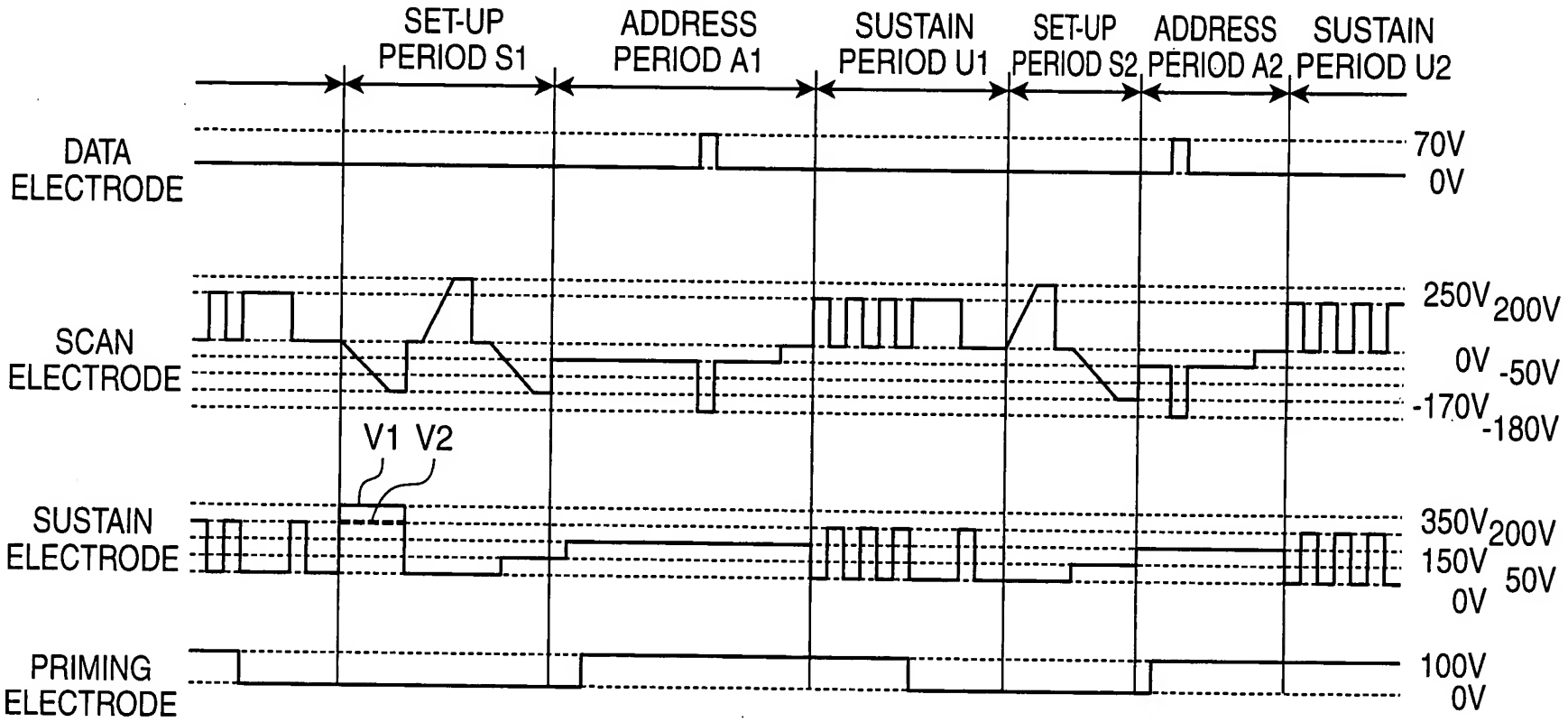

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1
V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V

FIG.19

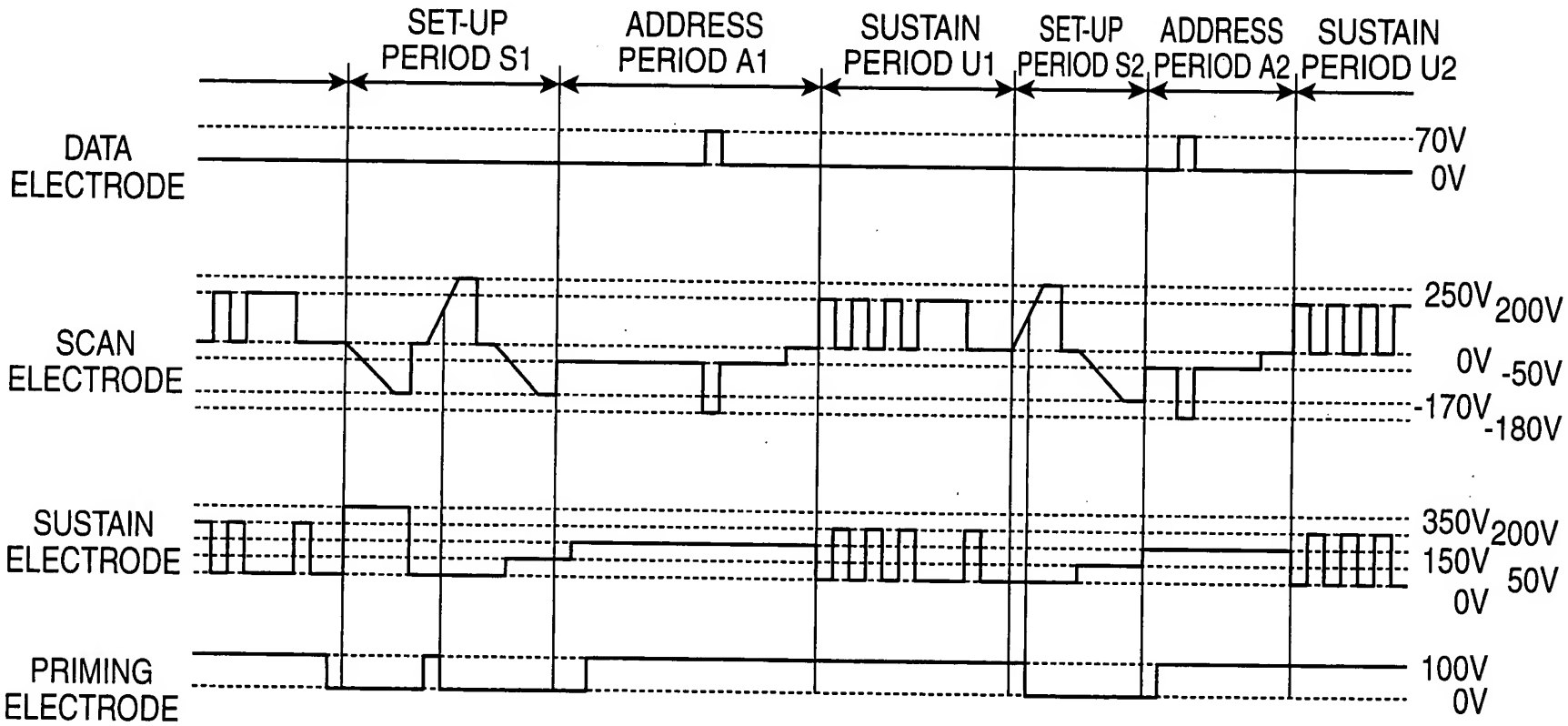
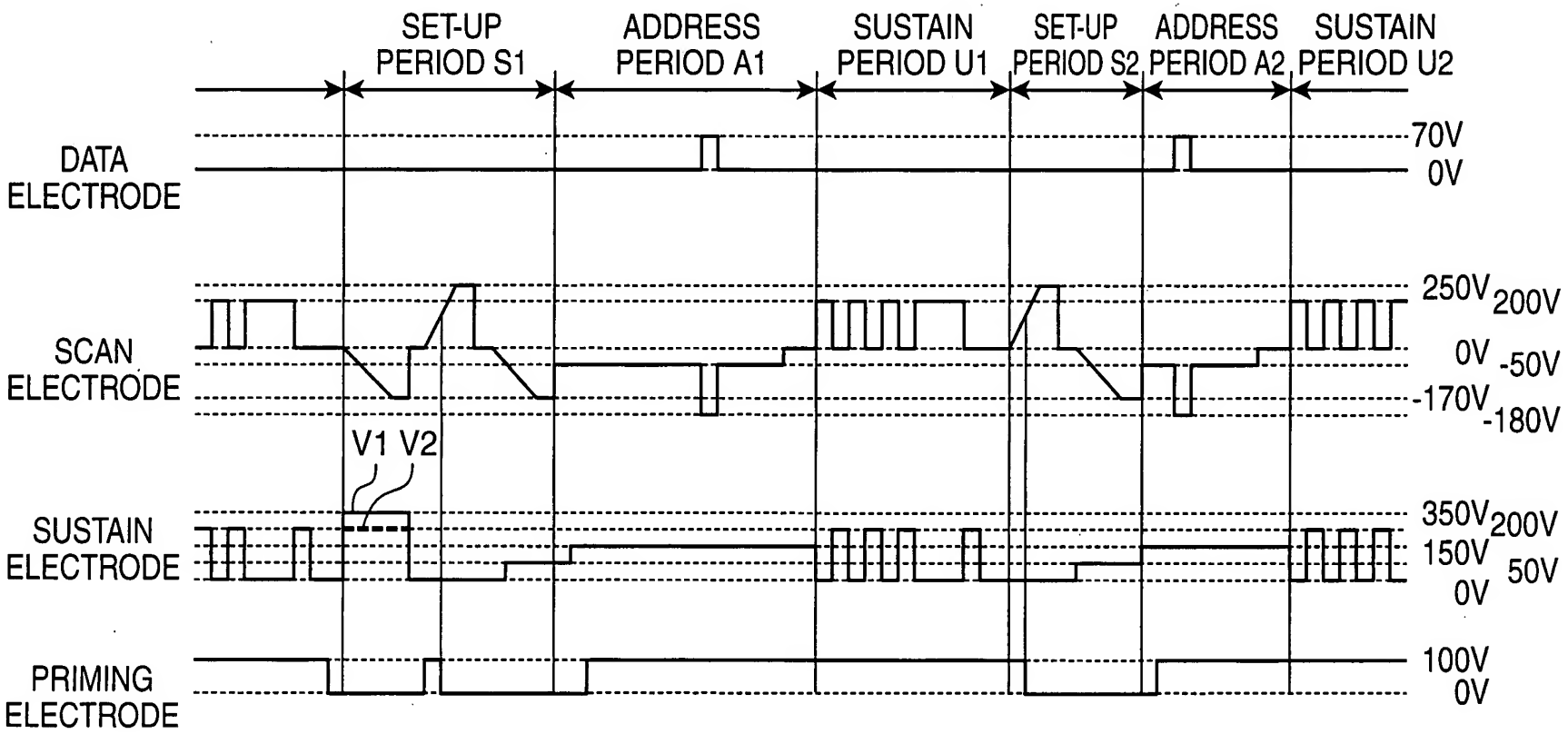

SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V

FIG.20


SET-UP PERIOD S1
ADDRESS PERIOD A1
SUSTAIN PERIOD U1
SET-UP PERIOD S2
ADDRESS PERIOD A2
SUSTAIN PERIOD U2
DATA ELECTRODE
70V
0V
SCAN ELECTRODE
250V
200V
0V
-50V
-170V
-180V
V1 V2
SUSTAIN ELECTRODE
350V
200V
150V
50V
0V
PRIMING ELECTRODE
100V
0V